

Title (en)

Winding configuration of an electric machine

Title (de)

GEWINDEKONFIGURATION EINER ELEKTRISCHEN MASCHINE

Title (fr)

Configuration de bobinage d'une machine électrique

Publication

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Application

**EP 11169254 A 20090728**

Priority

- US 8423808 P 20080728
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- US 49648809 A 20090701
- US 49651909 A 20090701
- EP 09803506 A 20090728
- US 2009052007 W 20090728

Abstract (en)

In one aspect, a stator for an electric machine includes multiple conductive coils. Each coil defines a loop that extends axially through the elongate core, exits the core through an end face, and reenters the core through the end face. A first subset of the coils collectively form a first radial layer axially exterior the core and a third radial layer axially exterior the core. Each coil in the first subset resides in both the first layer and the third layer. A second subset of the coils collectively forms a second radial layer axially exterior the core and a fourth radial layer axially exterior the core. Each coil in the second subset resides in both the second layer and the fourth layer. In another aspect, an electric machine includes a stator that carries a conductive winding having multiple coils. A first subset of the coils are in a first configuration, and a second subset of the coils are in a second configuration. In some implementations, the first configuration is a lap winding configuration, and the second configuration is a concentric winding configuration.

IPC 8 full level

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CPC (source: EP KR US)

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**Y10T 29/49009** (2015.01 - EP US); **Y10T 29/49012** (2015.01 - EP US)

Citation (applicant)

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